

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

**IN THE CLAIMS**

1. (Previously Presented) An information processing apparatus as set forth in claim 25,  
wherein at least one of said classifying adaptive processing circuits is configured for switching the corresponding classifying adaptive process for the corresponding information signal as the connection relation of said switching circuit is switched.
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Previously Presented) The information processing apparatus as set forth in claim 25,  
wherein at least one of said plurality of classifying adaptive processing circuits is configured for switching a coefficient of the corresponding classifying adaptive process so as to switch the process for the corresponding information signal as the connection relation is switched by said switching circuit.
6. (Previously Presented) The information processing apparatus as set forth in claim 25  
wherein the input information signals are output through said plurality of classifying adaptive processing circuits.

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

7. (Previously Presented) The information processing apparatus as set forth in claim 25 further comprising:

a pre-processing circuit for performing a predetermined process for the input information signal and switching the predetermined process as the connection relation is switched,

wherein an output of said pre-processing circuit is input to the corresponding one of said plurality of classifying adaptive processing circuits.

8. (Previously Presented) The information processing apparatus as set forth in claim 25 further comprising:

a post-processing circuit for performing a predetermined process for the corresponding input information signal and switching the predetermined process as the connection relation is switched,

wherein an output of one of said plurality of classifying adaptive circuits is input to said post-processing circuit.

9. (Previously Presented) The information processing apparatus as set forth in claim 25

wherein the information signals are picture data composed of pixel information, and

wherein one of said plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process based on the pixel information of the corresponding input information signal and predicting pixel information that has to be present

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

between the pixel information of the input information signal and pixel information adjacent thereto so as to improve the resolution of the picture data.

10. (Previously Presented) The information processing apparatus as set forth in claim 25

wherein the information signals are picture data composed of pixel information, wherein one of said plurality of classifying adaptive process circuits is configured for performing the classifying adaptive process for the corresponding input information signal using a prepared left eye coefficient and predicting pixel information of left-eye picture data and for performing the classifying adaptive process for the corresponding input information signal using a prepared right-eye coefficient and predicting pixel information of right-eye picture data so as to generate stereo picture data with the left-eye picture data and the right-eye picture data.

11 - 14. (Canceled)

15. (Previously Presented) The information processing apparatus as set forth in claim 25,

wherein the information signals are picture data composed of pixel information and structured in the unit of a frame, and

wherein one of said plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for the corresponding information signal that is input in the unit of a frame and generating picture data of frames chronologically preceded and followed by a frame of the input information signal.

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

16. (Currently Amended) An information processing apparatus, comprising:  
a first plurality of classifying adaptive processing circuits for performing a  
classifying adaptive process for an input information signal and receiving a control signal;  
a second plurality of classifying adaptive processing circuits for performing a  
classifying adaptive process for the input information signal and receiving the control signal; and  
a switching circuit for switching a connection relation among said first and second  
plurality of classifying adaptive processing circuits,  
wherein at least one of said first or second plurality of classifying adaptive  
processing circuits is configured for switching the structure of the corresponding classifying  
adaptive process as the connection relation of said switching circuit is switched.

17. (Previously Presented) The information processing apparatus as set forth  
in claim 16,  
wherein the structure represents a structure of class taps or a structure of  
predictive taps.

18. (Currently Amended) The information processing apparatus as set forth in  
claim 16,  
wherein the input information signals are output through said plurality of first and  
second classifying adaptive processing circuits.

00371057

-6-

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

19. (Currently Amended) The information processing apparatus as set forth in claim 16, further comprising:

a pre-processing circuit for performing a predetermined process for the input information signal and switching the predetermined process as the connection relation is switched,

wherein an output of said pre-processing circuit is input to the corresponding one of said first plurality of classifying adaptive processing circuits.

20. (Currently Amended) The information processing apparatus as set forth in claim 16, further comprising:

a post-processing circuit for performing a predetermined process for the corresponding input information signal and switching the predetermined process as the connection relation is switched,

wherein an output of one of said second plurality of classifying adaptive circuits is input to said post-processing circuit.

21. (Currently Amended) The information processing apparatus as set forth in claim 16,

wherein the information signals are picture data composed of pixel information, and

wherein one of said plurality of classifying adaptive processing circuits from said first or second plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process based on the pixel information of the corresponding input

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

information signal and predicting pixel information that has to be present between the pixel information of the input information signal and pixel information adjacent thereto so as to improve the resolution of the picture data.

22. (Currently Amended) The information processing apparatus as set forth in claim 16,

wherein the information signals are picture data composed of pixel information, wherein one of said plurality of classifying adaptive process circuits from said first or second plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for the corresponding input information signal using a prepared left eye coefficient and predicting pixel information of left-eye picture data and for performing the classifying adaptive process for the corresponding input information signal using a prepared right-eye coefficient and predicting pixel information of right-eye picture data so as to generate stereo picture data with the left-eye picture data and the right-eye picture data.

23. (Currently Amended) The information processing apparatus as set forth in claim 16,

wherein one of said plurality of classifying adaptive processing circuits from said first or second plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for the corresponding input information signal and obtaining picture data having a first resolution and another one of said plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for picture data having the first resolution and obtaining picture data having a second resolution.

U.S. Patent No. 09/980,130  
Reply to Office Action dated April 13, 2006

PATENT  
450106-03095

24. (Currently Amended) The information processing apparatus as set forth in claim 16,

wherein the information signals are picture data composed of pixel information and structured in the unit of a frame, and

wherein one of said plurality of classifying adaptive processing circuits from said first or second plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for the corresponding information signal that is input in the unit of a frame and generating picture data of frames chronologically preceded and followed by a frame of the input information signal.

25. (Previously Presented) An information processing apparatus, comprising:  
a plurality of classifying adaptive processing circuits for performing a classifying adaptive process for an input information signal; and

a switching circuit for switching a connection relation among said plurality of classifying adaptive processing circuits,

wherein at least one of said plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for the corresponding input information signal and obtaining picture data having a first resolution and another one of said plurality of classifying adaptive processing circuits is configured for performing the classifying adaptive process for picture data having the first resolution and obtaining picture data having a second resolution.